



PARTNER
IN VENTILATION
2VV.CZ

EN






ESSENSSE NEO - EC

INSTALLATION



**VCES2-B-xx-EC,
VCES2-C-xx-EC**

1. BEFORE YOU BEGIN

Symbol	Meaning
 CAUTION!	Warning or Caution
 PLEASE NOTE!	Important instructions
 you will need	Practical tips and information
 TECHNICAL INFORMATION	Detailed technical information
	Reference to another part of the manual



Before installing, read carefully the section **Safe use of the air curtains**, where you will find all the instructions for the safe and proper use of the product.

This manual includes important instructions for the appropriate installation of the air curtains. Before installing, read carefully all the following instructions and observe them. The manufacturer reserves the right to change, including the technical documentation, without prior notice. Keep the manual for future use. The instructions herein are part of the product

Declaration of conformity

Details can be found at www.2VV.cz

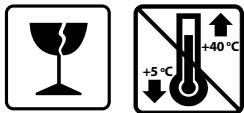
2. UNPACKING

2.1 CONTROL DE DELIVERY

 **PLEASE NOTE**

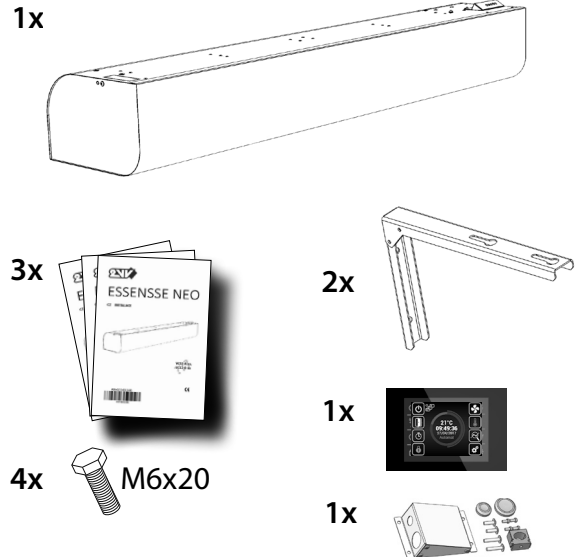
Check the product for damages immediately after delivery. In case of damage to the packaging, contact the carrier. Claims not filed in due time will be disregarded.

- Check that it corresponds to the type of product ordered. In case of discrepancy, do not unpack the product and contact the vendor.
- After unpacking, check that the product and all the other components are in good order. In case of doubt, contact the vendor.
- Do not install a damaged unit!
- If you will not unpack the product immediately after delivery, store it indoors, in a dry place with ambient temperatures between **+5 °C and +40 °C**.



	All the packaging material is environmentally friendly and can be reused or recycled. Contribute actively to the protection of the environment and ensure the proper disposal or recycling of the packaging materials.	
--	--	--

2.2 CONTENTS

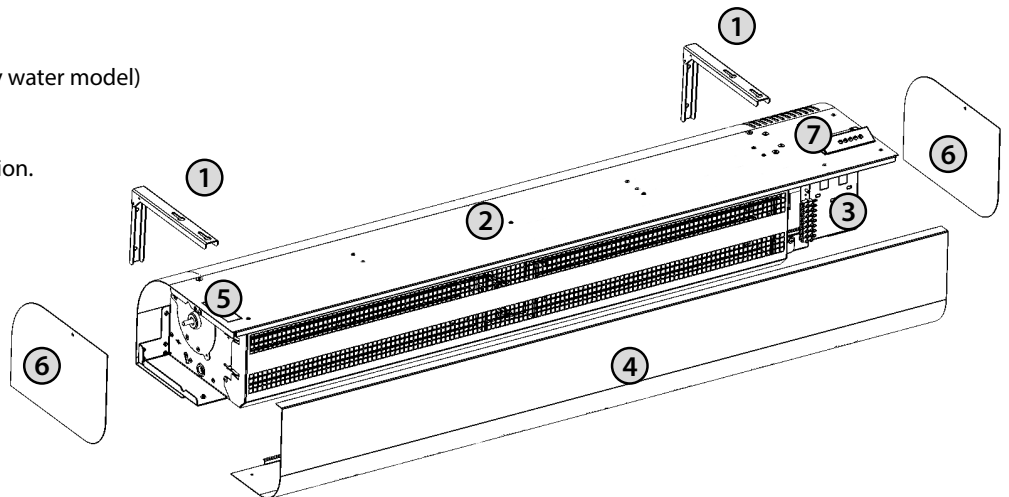


 **PLEASE NOTE**

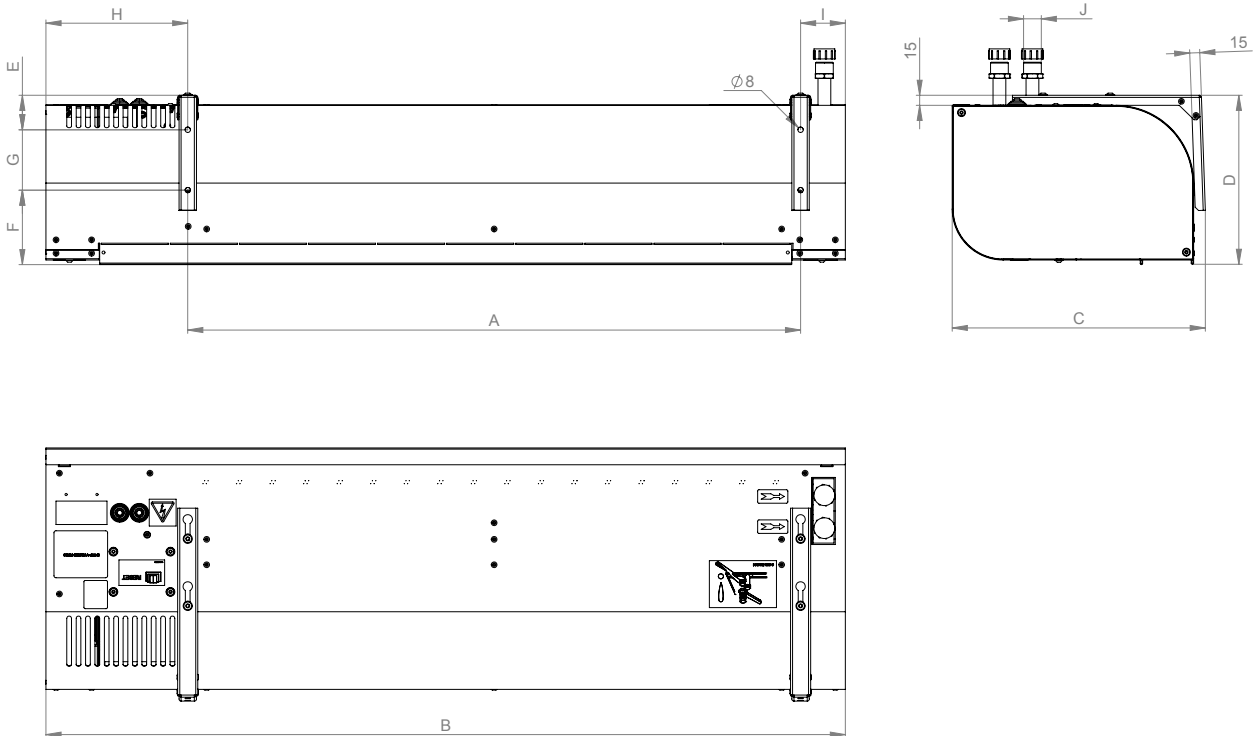
- If the unit was transported in temperatures lower than 0°C, after unpacking, leave it in operational conditions for at least two hours without activating in order to compensate the inner temperature.

3. MAIN COMPONENTS

- ① Mounting brackets (2pcs)
- ② Curtain body
- ③ Area to connect the control module
- ④ Suction cover
- ⑤ Connection of water exchanger (only water model)
- ⑥ Side cover
- ⑦ Terminal box for main power connection.



4. DIMENSIONS



TYPE	A	B	C	D	E	F	G	H	I	J
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
VCES2B-100...EC	913	1190	377	252	51	111	90	211	67	3/4"
VCES2C-100...EC	913	1190	377	252	51	111	90	211	67	3/4"
VCES2B-150...EC	1321	1600	377	252	51	111	90	211	67	3/4"
VCES2C-150...EC	1321	1600	377	252	51	111	90	211	67	3/4"
VCES2B-200...EC	1822	2100	377	252	51	111	90	211	67	3/4"
VCES2C-200...EC	1822	2100	377	252	51	111	90	211	67	3/4"
VCES2B-250...EC	2232	2510	377	252	51	111	90	211	67	3/4"
VCES2C-250...EC	2232	2510	377	252	51	111	90	211	67	3/4"

Type	Weight (kg)	Type	Weight (kg)
VCES2B-100-E...EC	25,5	VCES2C-100-E...EC	27,3
VCES2B-150-E...EC	32,6	VCES2C-150-E...EC	37,4
VCES2B-200-E...EC	39,8	VCES2C-200-E...EC	47,7
VCES2B-250-E...EC	46,9	VCES2C-250-E...EC	55,8
VCES2B-100-V...EC	26,1	VCES2C-100-V...EC	27,6
VCES2B-150-V...EC	32,9	VCES2C-150-V...EC	39,3
VCES2B-200-V...EC	40,1	VCES2C-200-V...EC	47,6
VCES2B-250-V...EC	47,4	VCES2C-250-V...EC	55,3
VCES2B-100-S...EC	24,8	VCES2C-100-S...EC	26,3
VCES2B-150-S...EC	31,3	VCES2C-150-S...EC	35,7
VCES2B-200-S...EC	38,3	VCES2C-200-S...EC	45,8
VCES2B-250-S...EC	45,1	VCES2C-250-S...EC	53,1

5. TECHNICAL PARAMETERS

Type	Heater output [kW]*	Total voltage	Total consumption [A]	Motor			Supply frequency [Hz]
				Power (W)	Current (A)	Voltage (V)	
VCES2B-100-E0...EC	5	400	12,6	125	0,56	230	50/60
VCES2B-150-E0...EC	8	400	11,7	165	0,72		50/60
VCES2B-200-E0...EC	10	400	14,8	222	0,94		50/60
VCES2B-250-E0...EC	12	400	19,8	292	1,24		50/60
VCES2B-100-E1...EC	6	400	11,0	125	0,56		50/60
VCES2B-150-E1...EC	9	400	17,1	165	0,72		50/60
VCES2B-200-E1...EC	12	400	21,7	222	0,94		50/60
VCES2B-250-E1...EC	16	400	25,5	292	1,24		50/60
VCES2B-100-E2...EC	10	400	14,1	125	0,23		50/60
VCES2B-150-E2...EC	15	400	22,6	167	0,73		50/60
VCES2B-200-E2...EC	19	400	28,6	230	0,97		50/60
VCES2B-250-E2...EC	25	400	36,8	265	1,13		50/60
VCES2B-100-V...EC	19	230	0,5	109	0,50		50/60
VCES2B-150-V...EC	27	230	0,7	154	0,68		50/60
VCES2B-200-V...EC	38	230	0,9	208	0,90		50/60
VCES2B-250-V...EC	46	230	1,1	298	1,20		50/60
VCES2B-100-S...EC	-	230	0,6	115	0,52		50/60
VCES2B-150-S...EC	-	230	0,7	156	0,69		50/60
VCES2B-200-S...EC	-	230	1,0	218	0,93		50/60
VCES2B-250-S...EC	-	230	1,2	271	1,15		50/60
VCES2C-100-E1...EC	10	400	14,9	243	1,04	230	50/60
VCES2C-150-E1...EC	15	400	23,4	362	1,52		50/60
VCES2C-200-E1...EC	19	400	29,5	458	1,91		50/60
VCES2C-250-E1...EC	25	400	37,5	429	1,81		50/60
VCES2C-100-V...EC	24	230	1,0	214	0,91		50/60
VCES2C-150-V...EC	34	230	1,4	318	1,34		50/60
VCES2C-200-V...EC	48	230	0,5	459	0,44		50/60
VCES2C-250-V...EC	55	230	1,9	435	1,84		50/60
VCES2C-100-S...EC	-	230	1,0	225	0,96		50/60
VCES2C-150-S...EC	-	230	1,4	329	1,40		50/60
VCES2C-200-S...EC	-	230	1,8	427	1,79		50/60
VCES2C-250-S...EC	-	230	1,7	394	1,67		50/60

* Intake air temperature +18°C, at maximum heater output and fan speed.



The other technical parameters can be found in the corresponding technical sheet of the product

6. INSTALLATION

6.1 OPERATIONAL CONDITIONS:

The air curtain is designed to be used in an indoor, dry environment, with ambient temperatures between **5°C to +40°C**, a maximum relative humidity of 80%, and to transport air free of coarse dust, grease, chemical fumes and other contamination. The electrical protection is IP 20 (against particles larger than 12.5 mm, not protected against water).

Curtains with electric heater are fitted with an operational thermostat with automatic reset (located on each heater) and an emergency thermostat with manual reset.

The water exchangers are designed for a maximum water temperature of +100°C and maximum pressure of 1.6 MPa.

6.2 INSTALLATION CONDITIONS

The installation and assembly of the unit may be carried out only by a suitably qualified person who has the adequate tools!

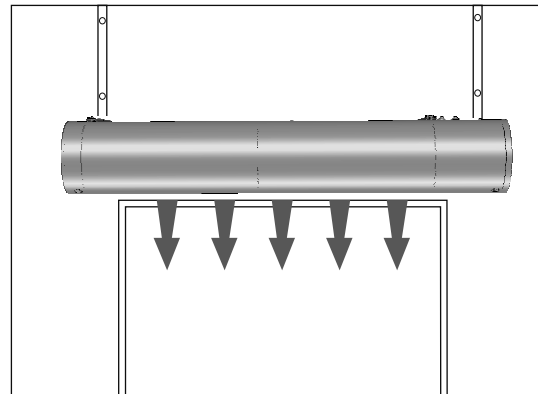
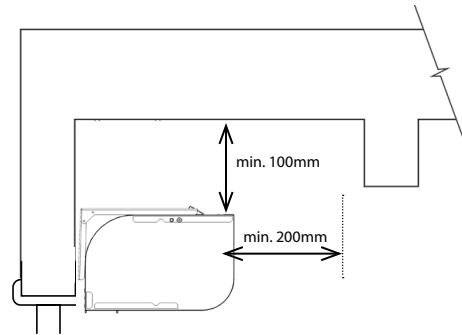
2 mounting brackets and 4 bolts are supplied with the product as standard.

If the unit is to be mounted on threaded rods, they have to be ordered separately. The following rules should be observed for the proper function of the unit.

PLEASE NOTE

- minimum clearances must be observed (see fig. clearances) with respect to the flammability of materials.
- the clearances with respect to the flammability of materials are determined by the architect with regards to the regulations applicable at the place of installation
- the unit may be installed only in horizontal position
- there must be at least 200 mm of free space in front of the suction cover for the proper functioning of the unit
- the exhaust should be located as near as possible to the door or the curtain opening
- the curtain should extend beyond both sides of the opening by at least 100 mm
- if the curtain is to be installed above a door, place it as near as possible to the upper border of the door. See that the intake and exhaust are not blocked and that the air can flow freely, see fig.

6.3 SUSPENSION:



If there is a window above the door or another material preventing the installation on the brackets, the unit may be hung from the ceiling with threaded rods, directly onto dowels (see below).

Installation with mounting brackets

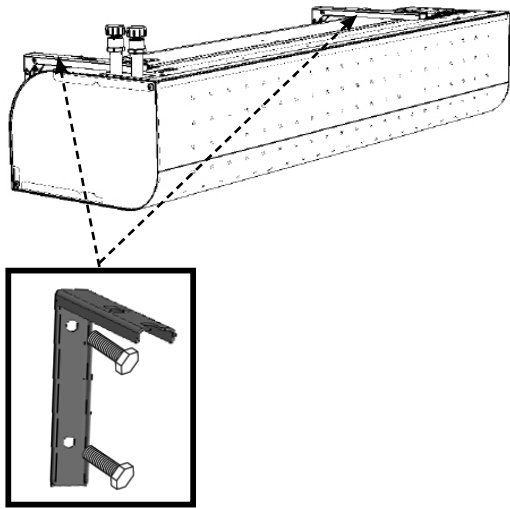


YOU WILL NEED

- 4x dowels (not included)**
- 4x bolts (not included)**

Measure the holes on the wall according to the dimension chart (see "Dimensions") (observe the installation rules) Do not forget to choose whether the unit will be installed according to A or B and to set the height of the opening according to that! Insert back in the opening in the curtain (and only partially in the curtain) the screws that held the brackets and hang the curtain from them. **Check that the curtain is fastened properly to prevent it falling**

6. INSTALLATION



Installation with threaded rods



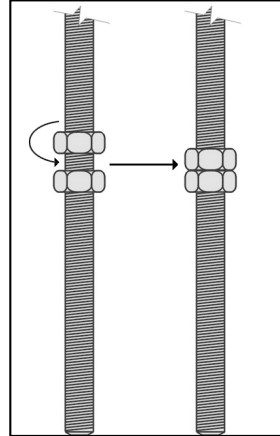
YOU WILL NEED

- 4 6mm anchors (not included)
- 4 M6 threaded rods (not included)
- 8 M6 nuts (not included)
- M10 spanner (not included)

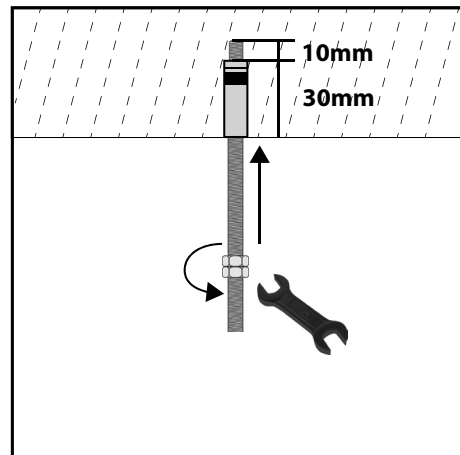
hanging from threaded rods



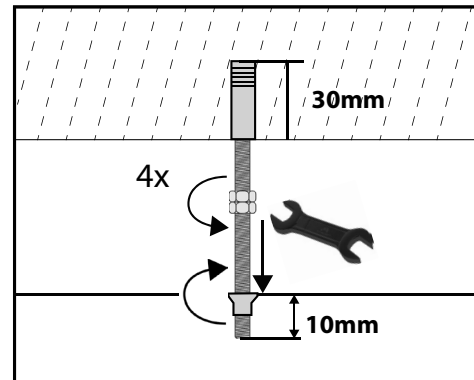
Before installing, check that the ceiling can bear the weight of the unit. Install according to the following figures.



1. Fastening to the ceiling



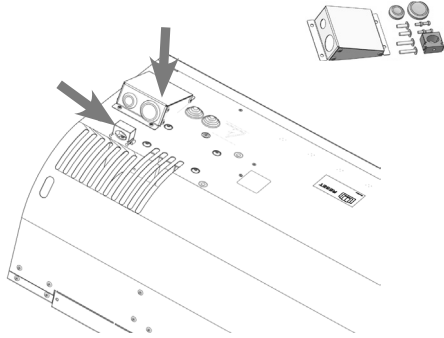
2. Fastening to the curtain



6. INSTALLATION

6.4 Connecting the supply cables

- The power cable may be connected to the main terminal box located on the upper part of the unit only after having installed the control module (see figure below).
- Pull the regulator's communication cable.
- Pull the cables to the accessories, if applicable



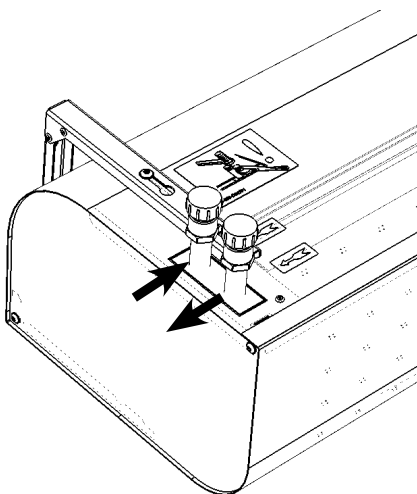
CAUTION!

The supply must be determined by the relevant designer, it must comply with the applicable regulations and take into account the power an installation parameters of the air curtain

6.5 Connecting the water heater

(only for the curtain with LPHW)

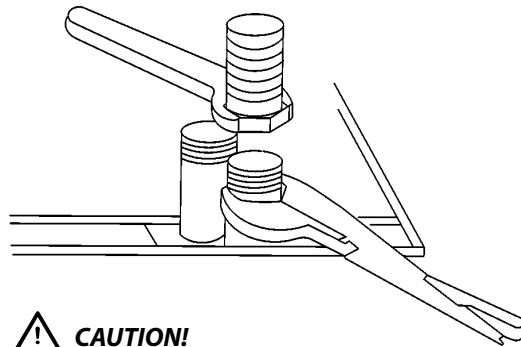
- flexible hoses are recommended to connect the water heater
- the connection and pressure tests of the heater must be carried out by a person with qualifications in plumbing and in compliance with the applicable regulations
- the diameters of the pipes to connect the water heater are listed in the section DIMENSIONS
- the heater is designed for water with a maximum pressure of 1.6 MPa and a maximum temperature of +100°C.



PLEASE NOTE

- connect the pipes in the countercurrent connection, the hot water connection and the return heating water are shown in the figure above
- it is advisable to install a shut-off valve at the inlet and the outlet of the heater to interrupt the water supply

CAUTION! When connecting the heater, hold the outlet with pliers to prevent damages (see figure)



CAUTION!

Before starting up the unit check that:

- No tools or other objects that may damage the unit have been left inside.
- The power and heating water supply are well connected.
- The unit is properly covered.
- The control panel is properly connected

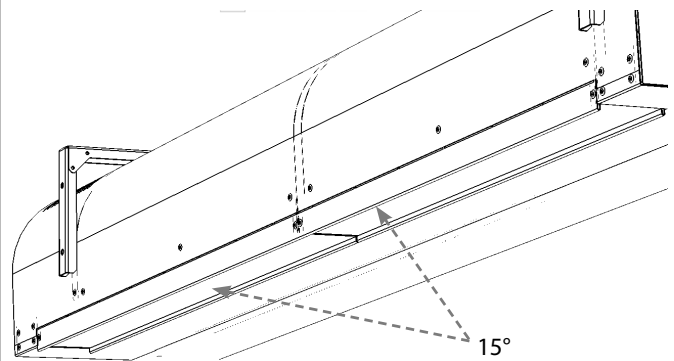
During the commissioning, check the proper function of the unit (fans, heating). Check the other possible settings and functions according to the user manual of each regulator

7. COMMISSIONING

7.1 SETTING THE DIRECTION OF THE EXHAUST AIR

CAUTION!

Deflect the exhaust in the desired direction during the installation of the unit. The exhausts of the Essense air curtain can blow air at a maximum angle of 15°



8. CLEANING AND MAINTENANCE

8.1 CLEANING



ATTENTION!

Before carrying out any work inside the air curtain, the main power input must be disconnected. The air curtain must be allowed to cool down!

- It is forbidden to use compressed air, aggressive chemicals, solvents or water for cleaning.
- Clean using a damp cloth, fine brush or vacuum cleaner.
- Clean the surface of the air curtain including the suction inlet part.
- Clean as necessary, it is recommended that cleaning should be performed at least once every 3 months.
- Adhere to workplace safety and use protective aids.

9. SERVIS

9.1 WHEN YOU AREN'T ABLE TO REMOVE DEFECT BY YOURSELF

If you are unable to resolve the problem, contact the supplier.

For the fast removal of defects please provide the following information:

- product reference number
- serial number
- running time
- used accessories
- installation location
- installation condition (including electrical)
- detailed description of the problem and the steps that you have taken for its removal

Warranty and post-warranty service is performed by the manufacturer, supplier or authorized service organization. When ordering service intervention it is necessary to describe the defect, product type designation indicated on its label, and the location of installation.

9.2 PUTTING THE PRODUCT OUT OF OPERATION - DISPOSAL

Before disposing of the product, make the product unusable. Even old products contain raw materials that can be reused. Take them to a collection point of secondary raw materials.

The product is good to dispose at the place, which is specialized for it, and thus it will be possible to recycle materials. Store unusable parts of the product at a controlled dump.



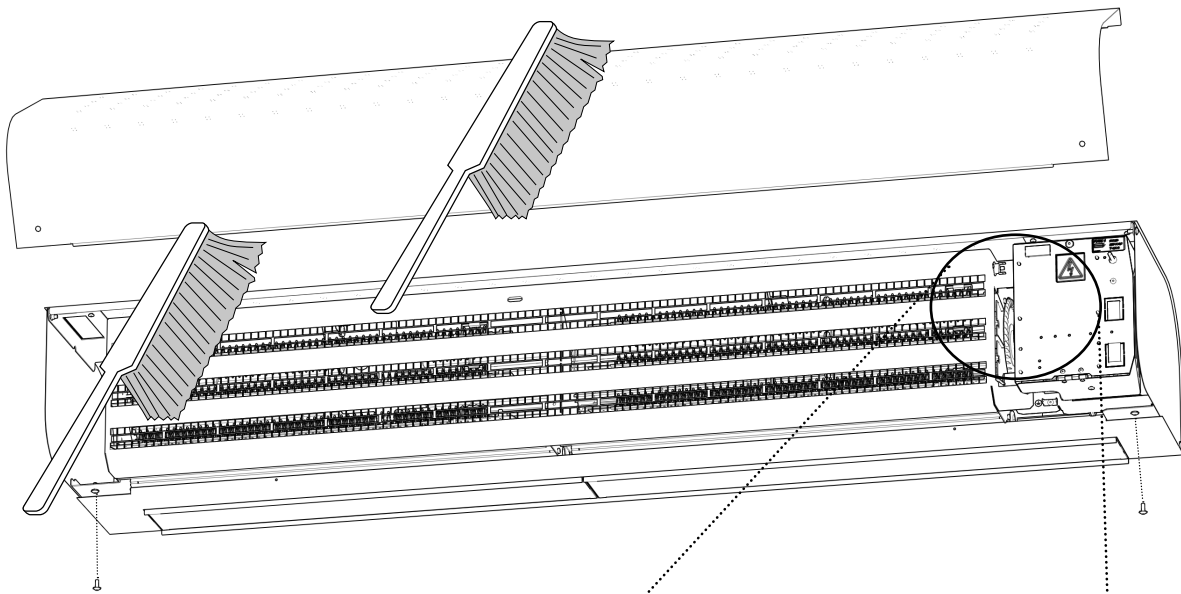
When disposing of materials, it is necessary to observe the relevant national regulations on waste disposal.

8. SERVIS CLEANING AND MAINTENANCE

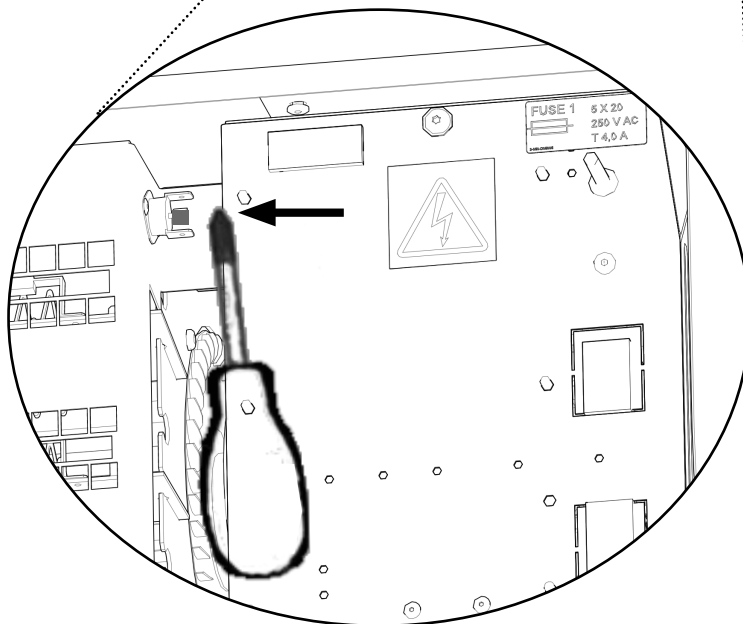
9.3 EMERGENCY THERMOSTAT RESET

The main power supply must be switched off before any intervention inside the air curtain. The air curtain must be allowed to cool down!

- Check of emergency thermostats and subsequent reset.
- Visual inspection of curtain, heat exchanger and connection.
- Clean the surface and inside of the air curtain, including the suction part.

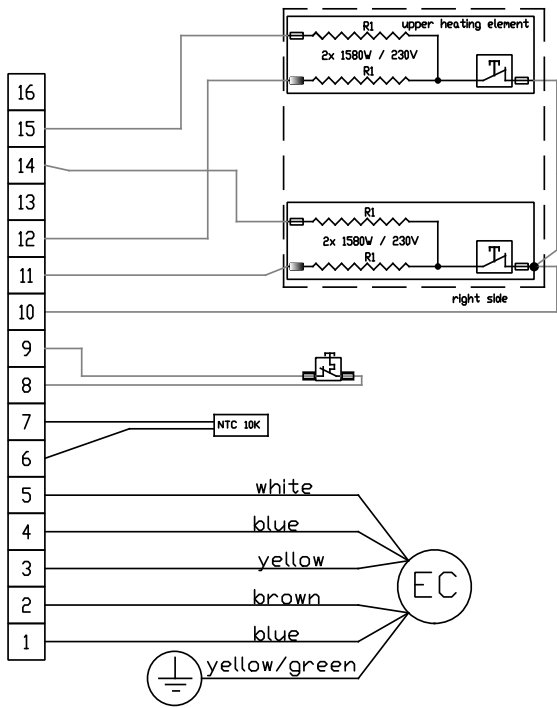


Click reset ok.

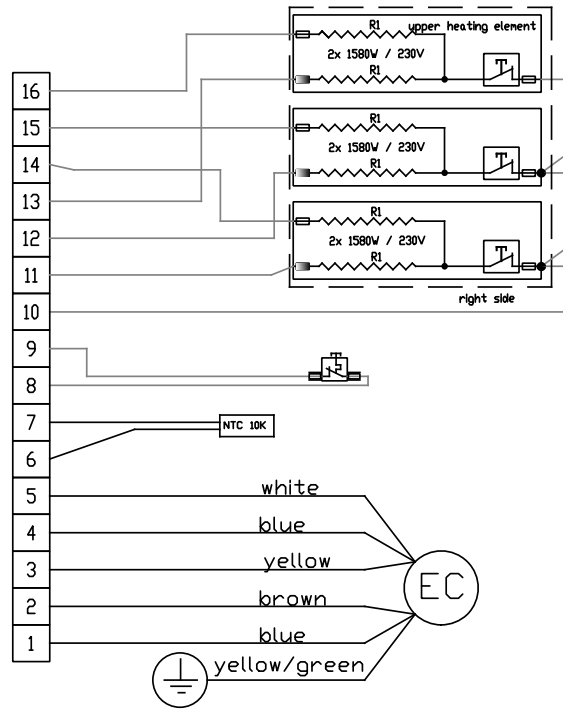


10. WIRING DIAGRAM

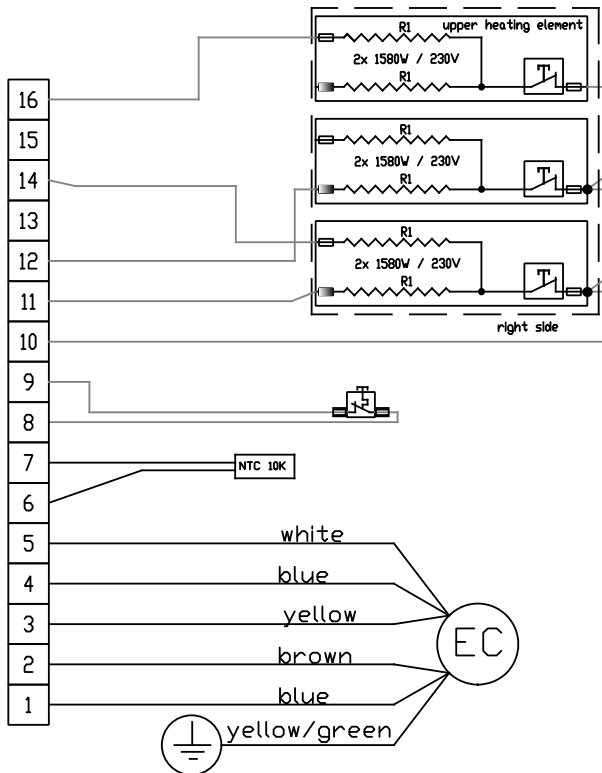
VSES2B100-E0EC



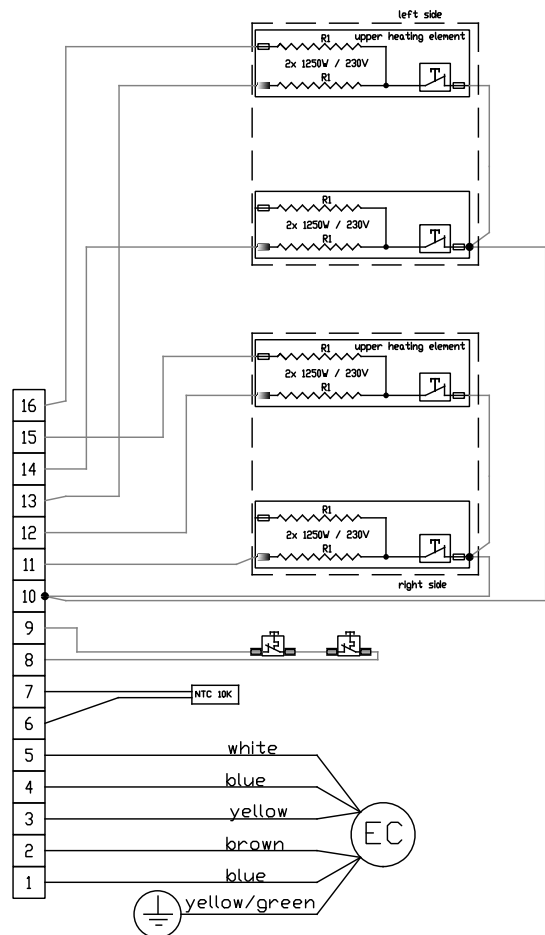
VSES2B100-E2EC



VSES2B100-E1EC

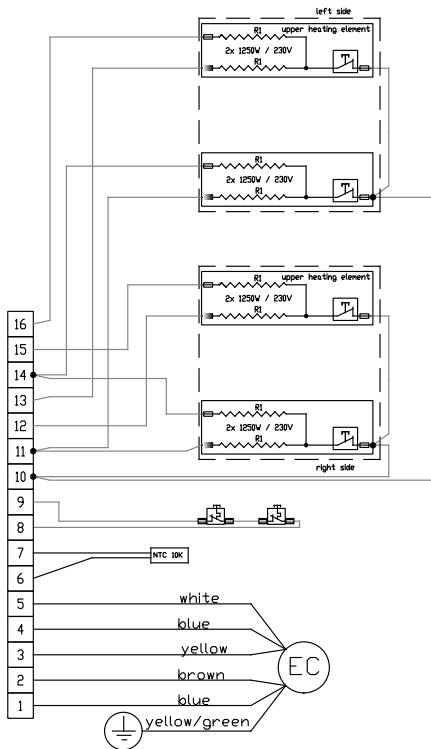


VSES2B150-E0EC

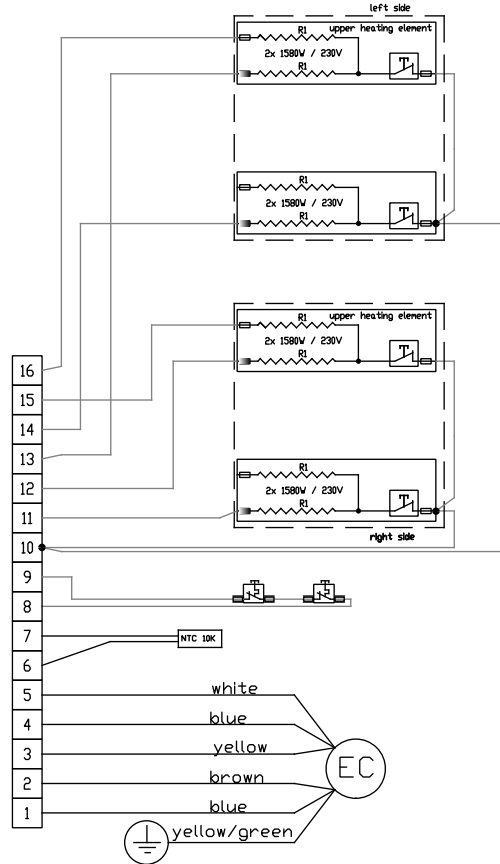


10. WIRING DIAGRAMS

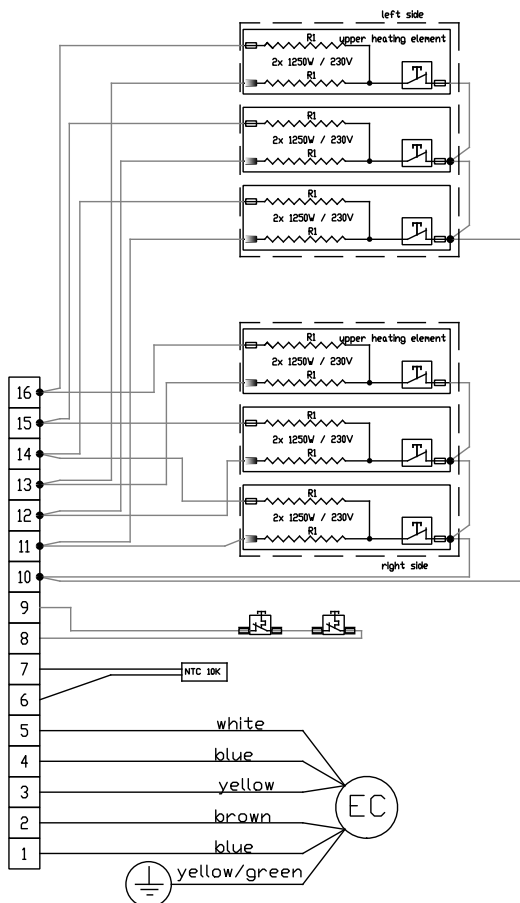
VSES2B150-E1EC



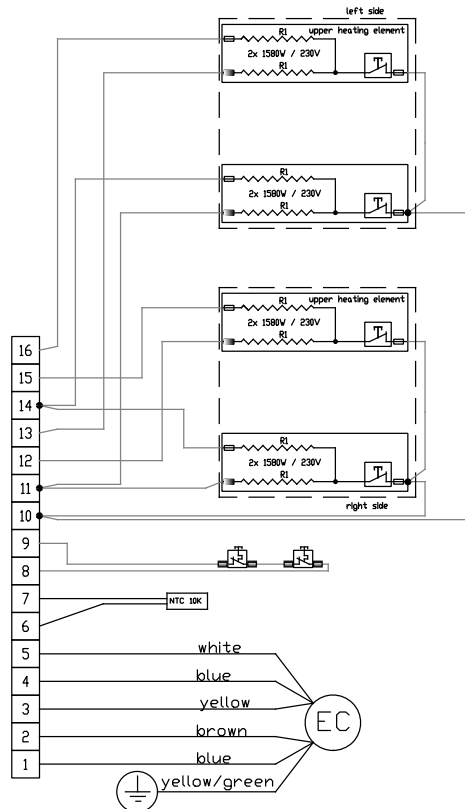
VSES2B200-E0EC



VSES2B150-E2EC

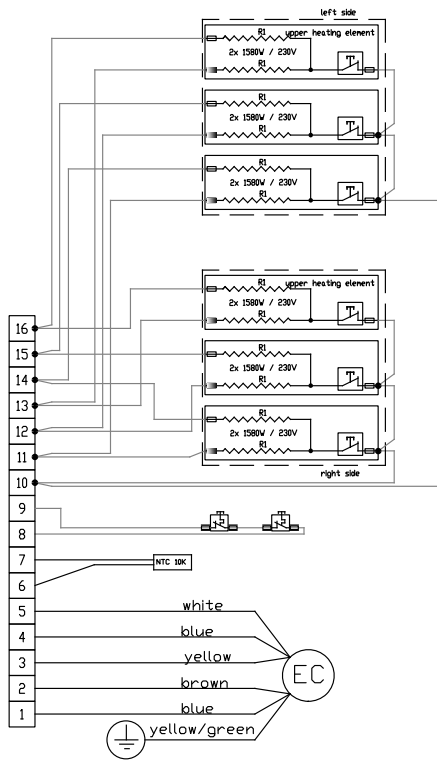


VSES2B200-E1EC

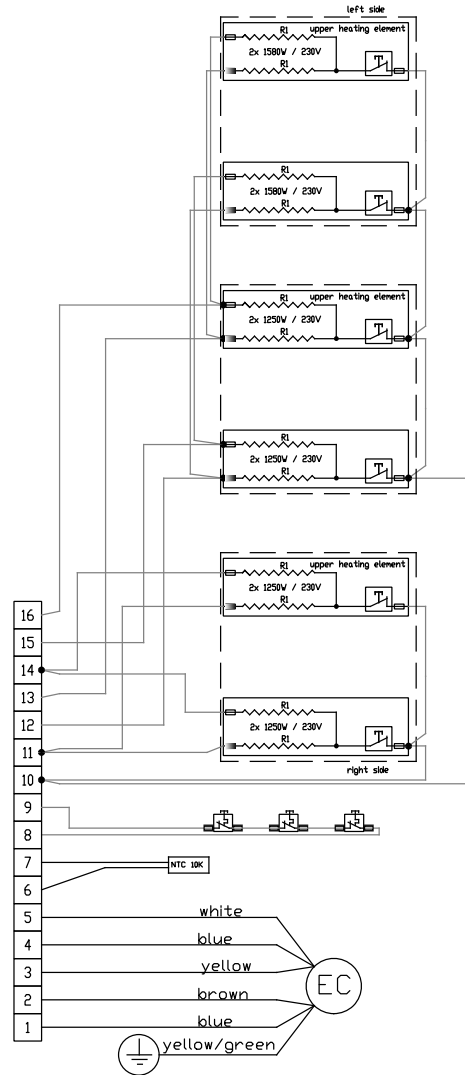


10. WIRING DIAGRAM

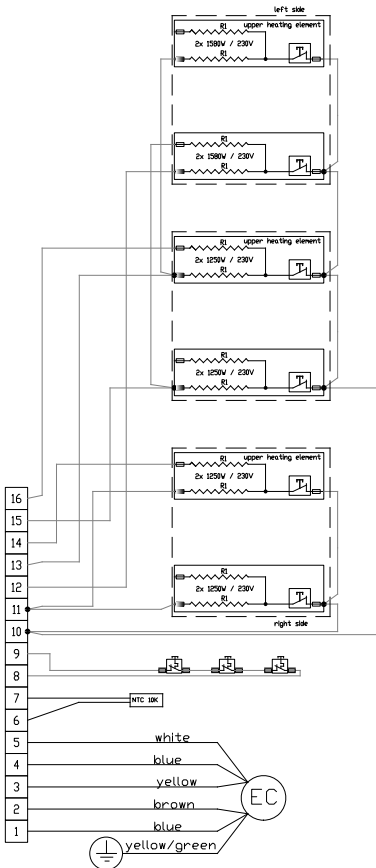
VSES2B200-E2EC



VSES2B250-E1EC

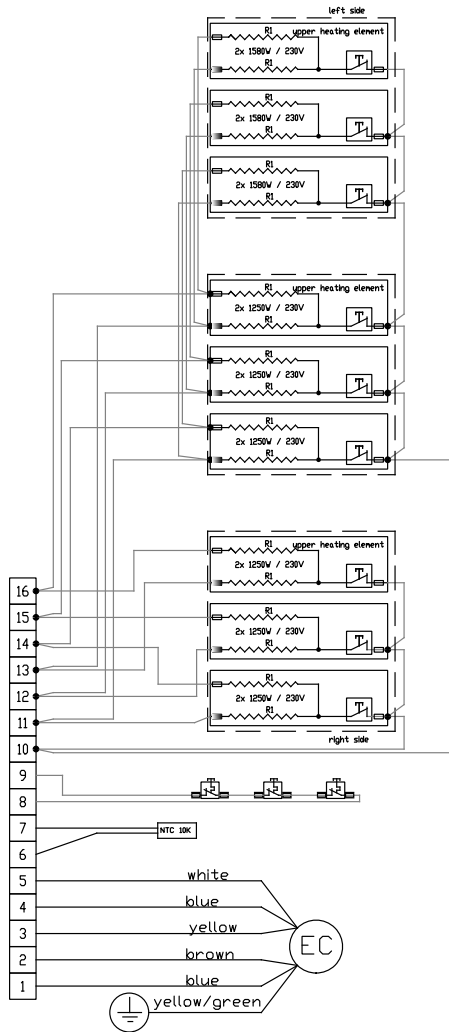


VSES2B250-E0EC

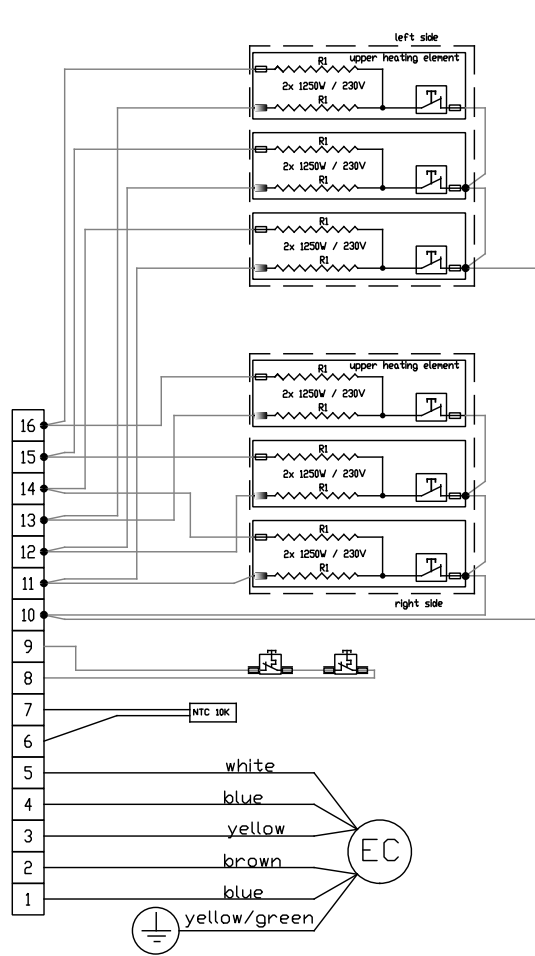


10. WIRING DIAGRAMS

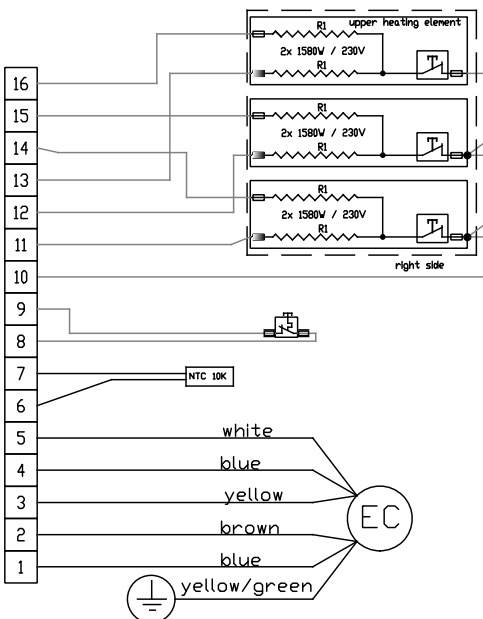
VSES2B250-E2EC



VSES2C150-E1EC

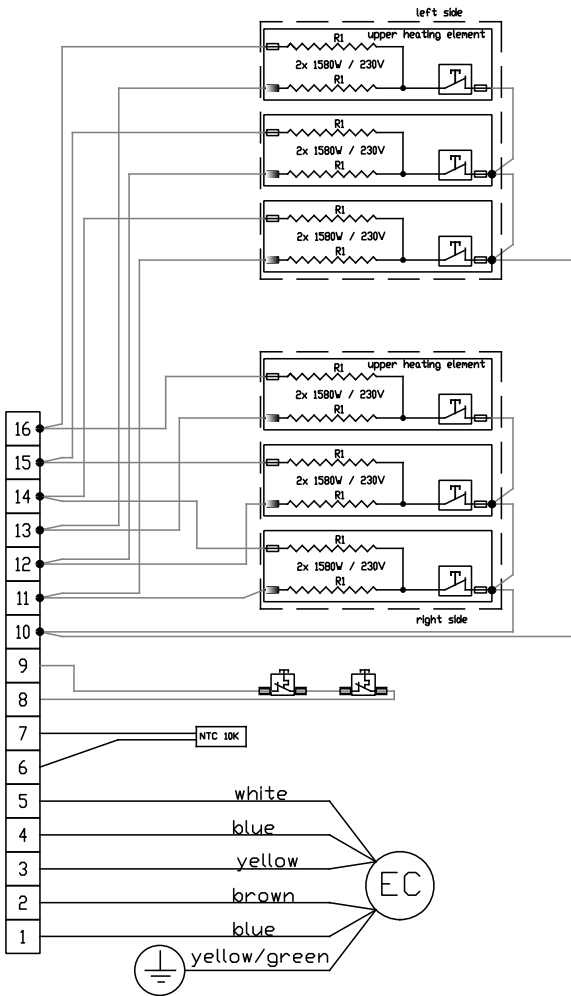


VSES2C100-E1EC

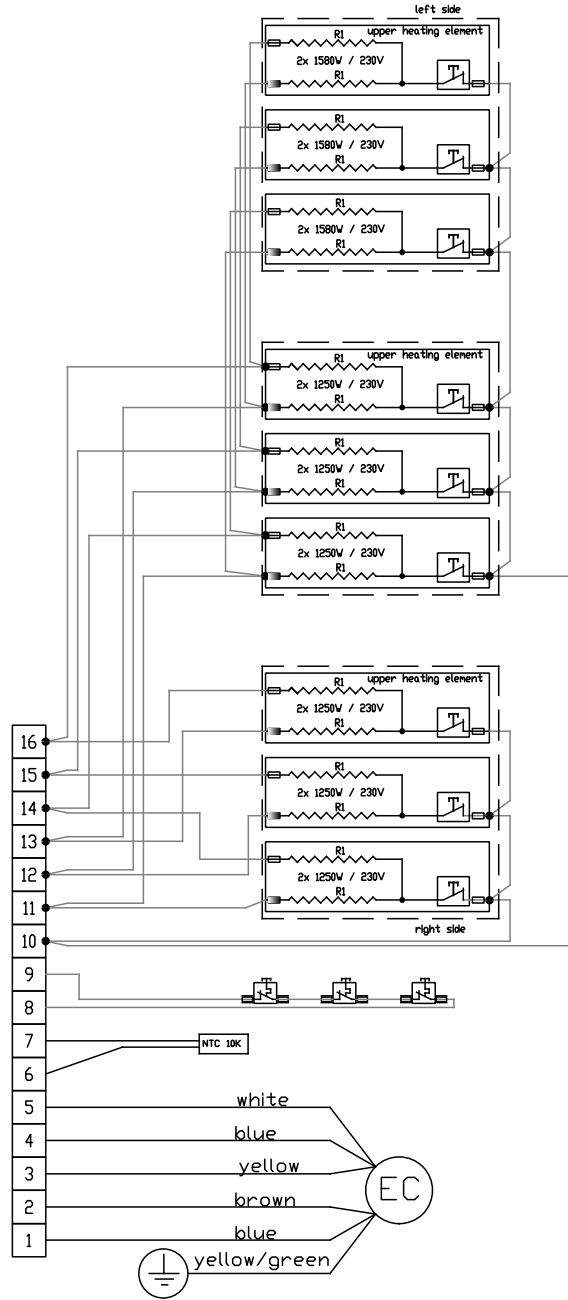


10. WIRING DIAGRAM

VSES2C200-E1EC

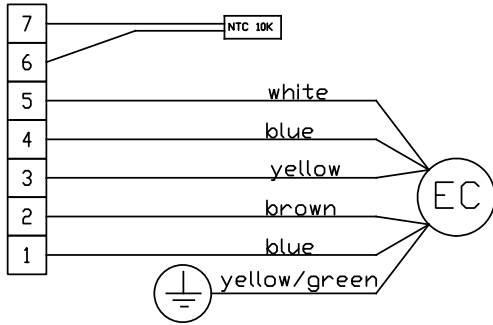


VSES2C250-E1EC



10. WIRING DIAGRAMS

VSES2Cxxx-V1,S0EC



11. CONCLUSION

After installing the air curtain, read carefully the **Manual for the appropriate regulator**. In case of any doubt or query, do not hesitate to contact our sales or technical support departments.

CONTACT

Address:

2VV, s.r.o.,
Fáblůvka 568,
533 52 Pardubice,
Česká republika

Internet:

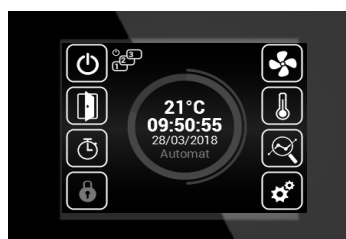
<http://www.2vv.cz/>



2W PARTNER
IN VENTILATION
2VV.CZ

ESSENSSE NEO

SUPERIOR v3



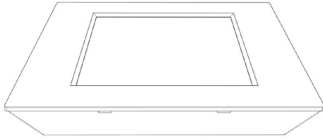
EN Installation and operation instructions

CE

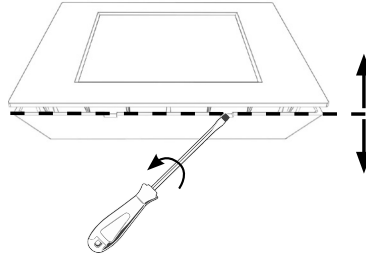
1. INSTALLATION

1.1 CONNECTING THE CONTROL

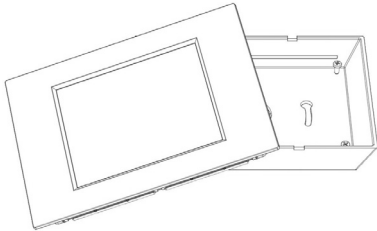
1.



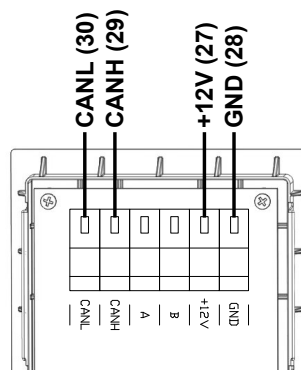
2.



3.



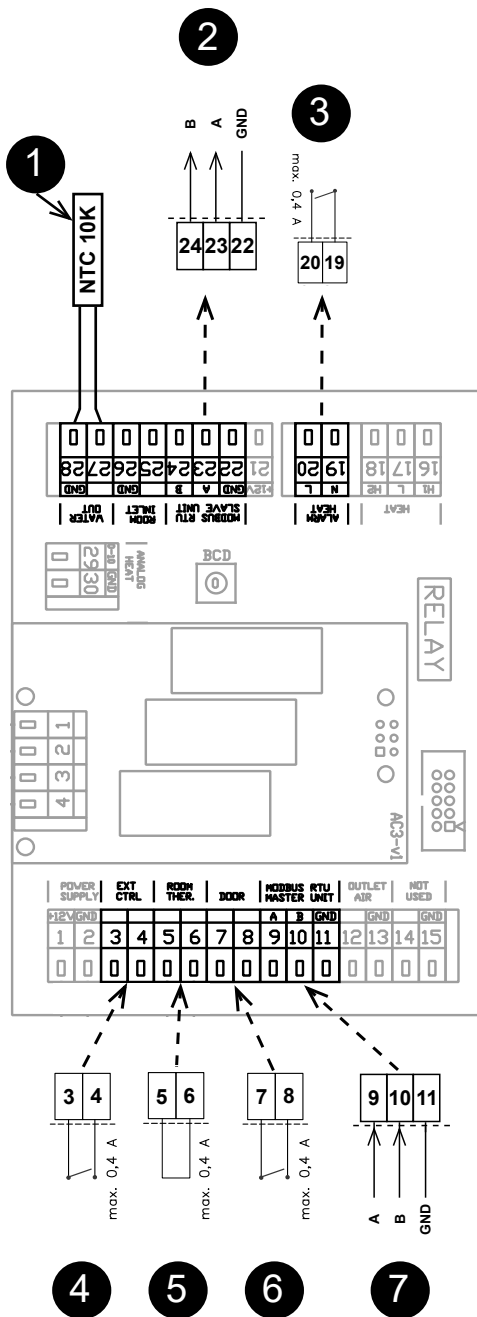
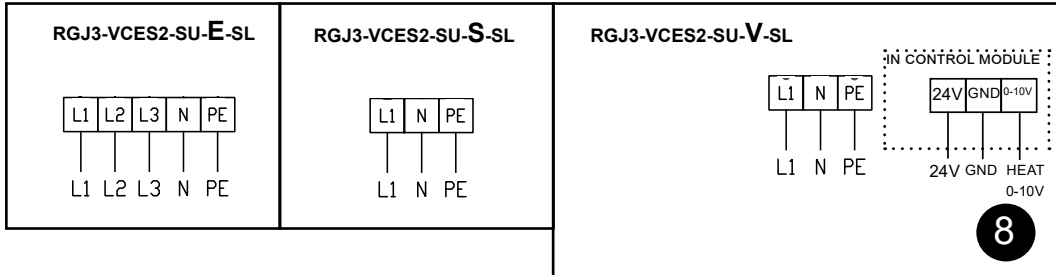
4.



* Recommended UTP CAT5 data cable (twisted pair)

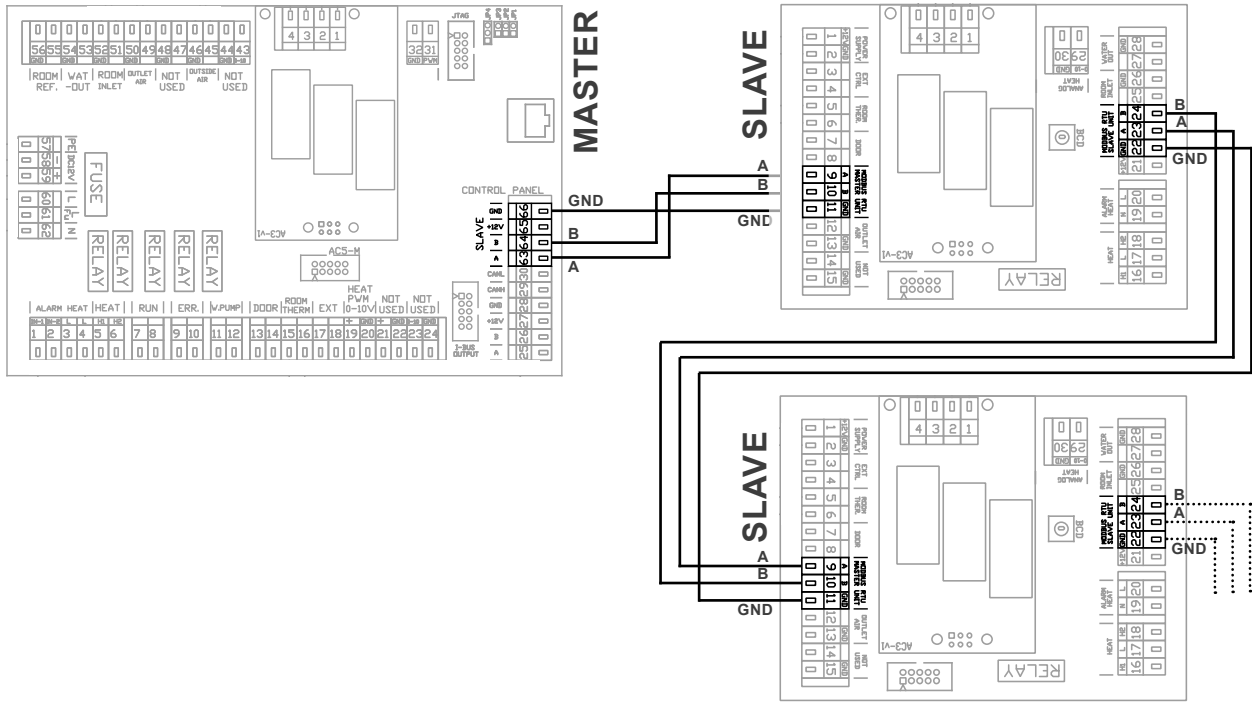
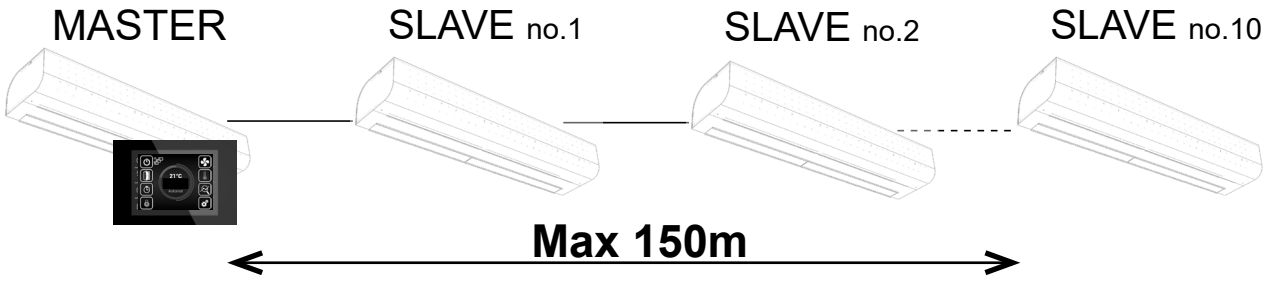
1. INSTALLATION

Regulation module Slave SUPERIOR

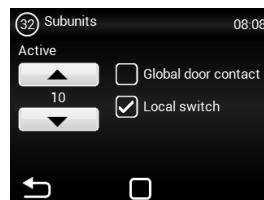
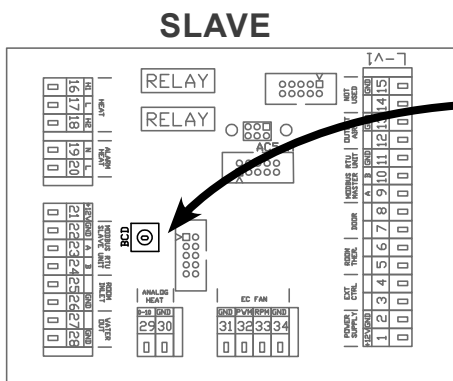


1	LPHW sensor (included)
2	Connection for SLAVE unit
3	Frost Protection (NC)
4	External control - (input, ON / OFF)
5	Thermostat (input, NO / NC)
6	DOOR contact (input, NO / NC)
7	Control signal from MASTER unit
8	24V DC, 0-10 V DC for water valve

1. INSTALLATION



The total bus length of all chained curtains must not exceed 150m!!!

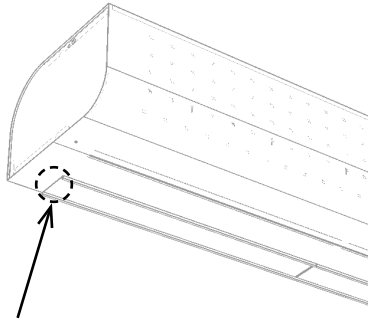


SLA-VE	BCD	SLA-VE	BCD
NO.1	1	NO.6	6
NO.2	2	NO.7	7
NO.3	3	NO.8	8
NO.4	4	NO.9	9
NO.5	5	NO.10	A

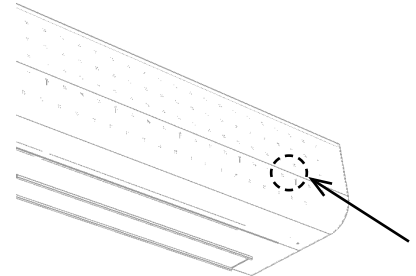
1. INSTALLATION

Positions of temperature sensors

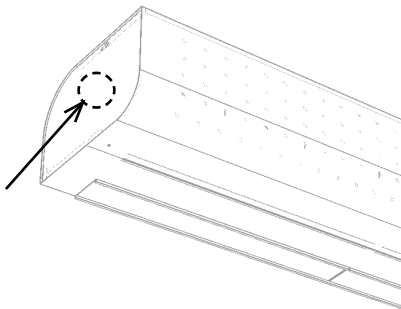
Outlet air temperature - already in product



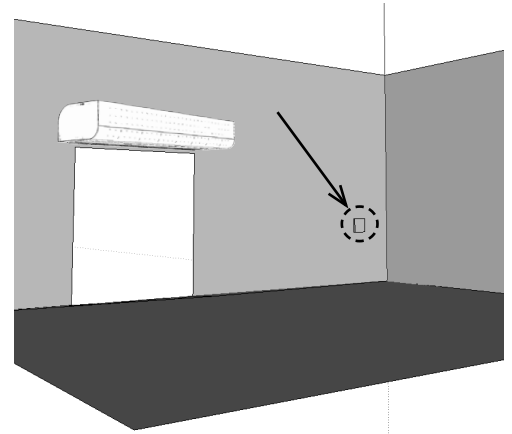
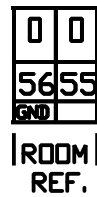
Inlet air temperature - already in product



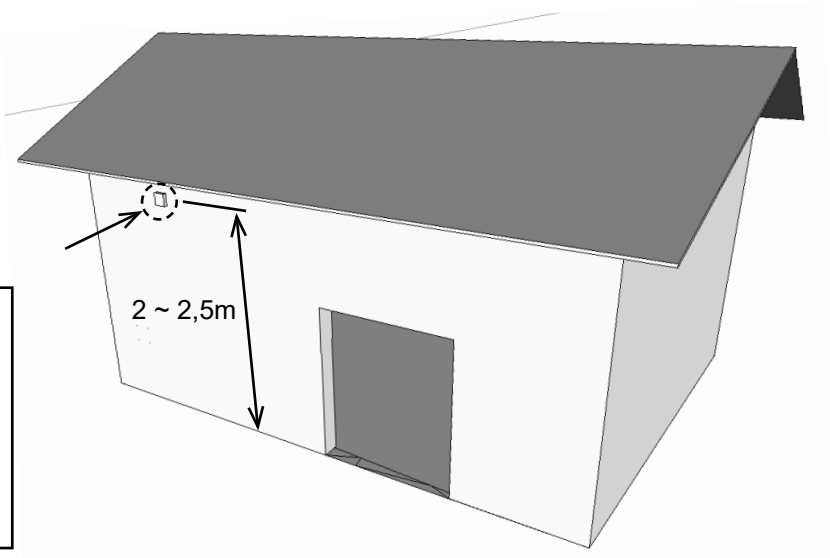
Temperature of return water



Room temperature sensor - accessories



Outside temperature - sensor included



	<p>Outside temperature sensor is recommended to be installed on North side of building, protected against direct sunlight or any other unwanted heat radiation.</p> <p>Temperature sensor is recommended to install to an cover box, which should contain small hole for better results. Sensor is water protected.</p>
--	---

2. EXTERNAL ACCESSORIES

2.1 CONNECTING EXTERNAL ACCESSORIES



PLEASE NOTE

- The unit must be disconnected from the power supply to connect accessories.
- All external control components must be connected according to the wiring diagram.
- The connectors must be connected to the electrical board with adequate force and always perpendicular to the base.

2.1-1 DS door contact



TECHNICAL INFORMATION

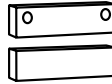
- suitable for all SM regulation
- Isolated switching contact with maximum voltage 230V, 6A
- IP67, can be connected as a break or switching contact



CAUTION!

Not included with the product.

2.1-2 DK-1 / DK-B3 door contact



TECHNICAL INFORMATION

- Isolated switching contact with maximum voltage 12V.
- Cable - Two-core cable with a cross section of 0,5 mm². - Maximum length: 50 m



CAUTION!

Not included with the product.

2.1-3 Thermostatic valve – TV1/1



TECHNICAL INFORMATION

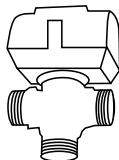
- Thermostatic valve to regulate the water exchanger
- Suitable for all types of curtain with water exchanger
- Works independent to the electronic controls



CAUTION!

Not included with the product.

2.1-4 Zone valve ZV-3-24V



TECHNICAL INFORMATION

- Zone valve to regulate the water exchanger 0-10V
- Cable - Four-core with a cross-section of 0.5 mm² Supply 24 V/ 50/60 Hz (24V external source, not included), control tension 0-10V

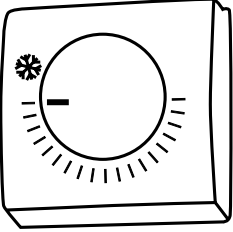


CAUTION!

Not included with the product.

2. EXTERNAL ACCESSORIES

2.1-5 Room thermostat - TER-P



TECHNICAL INFORMATION

- Room thermostat to regulate heating
- Cable - Two-core cable with a cross-section of 1.5 mm², 230 V/ 50 Hz.

 **CAUTION!**

Not included with the product.

3. COMMISSIONING



PLEASE NOTE

Before starting up the unit, check the following:

- Did you leave inside tools or objects that could damage the unit?
- Is the supply of energy and heating water (if applicable) adequate?
- Is the unit well closed?
- Is the control module properly connected?
- Does the unit have adequate protection according to the applicable standards?

4. CONTROL

READ CAREFULLY!

Before the initial commissioning, check:

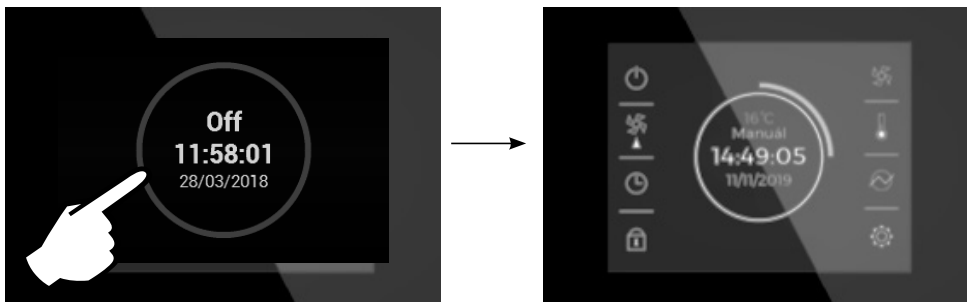
- that the device is well fastened to the support structure,
- that the device is properly closed
- that the power supply is properly connected, including the earthing and the external trigger protection,
- that all the electrical components are securely connected,
- that the installation complies with all the instructions herein,
- that no tool or any other object that may damage the unit remains within.

CAUTION!

- Interventions or changes to the internal connections are forbidden and shall result in the loss of warranty.
- We recommend the use of accessories supplied by our company. Contact your supplier in case of doubts regarding the use of non-original accessories.

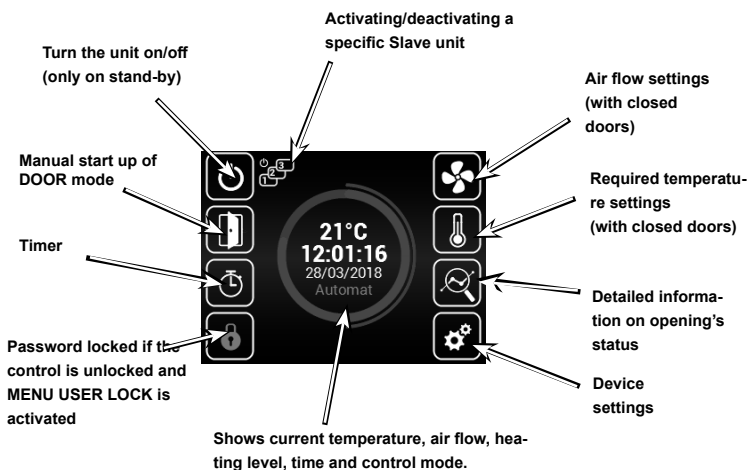
START-UP

After connecting power supply, the display lights up and the data is loaded. The device is ready to be activated once the service data has fully loaded.



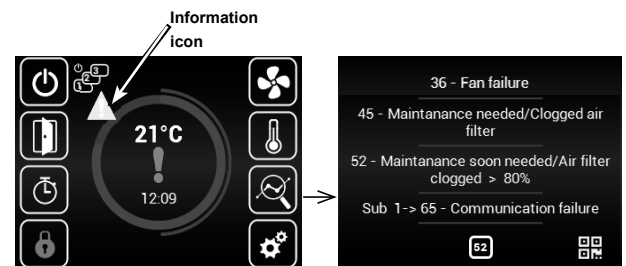
The remote control has a touch screen. The device is controlled tapping the symbols on the screen

Description of main screen



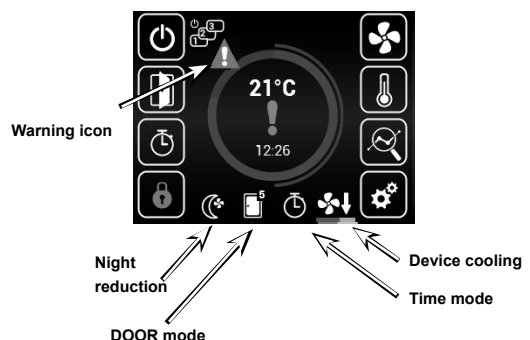
Warning icons

They inform about errors. Clicking on them opens a screen with the error report.



Information icons

They only inform about status, not errors.



4. CONTROL



Current status

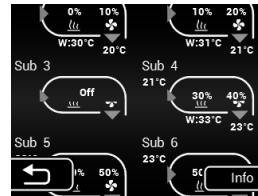
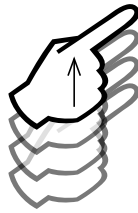
This screen shows the detailed status of the opening and the sensor values:

- Current air-flow settings (step or %), information icons
- Air temperature at intake*, exhaust*, room temperature* and outside temperature* (* – if the relevant sensors are installed and enabled)
- Heater output settings (if included)

Labels for the Current status screen:

- Outside temperature: 16°C
- Inlet temperature: 20°C
- Room temperature: 22°C
- Heat power: 50%
- Fan speed: 80%
- SP= Temperature setpoint: 45°C
- Return water temperature: 18°C
- Green color = active sensor
- Indicates heating is blocked (summer mode)
- Info button
- Back to previous screen button

The information on any connected SLAVE units will be shown here. It can be accessed moving the screen upwards.



The settings can be found below, under "SUBUNITS"



Settings MENU

Labels for the Settings menu screen:

- Display backlight
- Language
- Date and time
- Timer
- Back to previous screen
- Parameters
- Air flow settings (with closed doors)
- Required temperature settings (with closed doors)



Required temperature settings with closed doors

Labels for the Required temperature settings screen:

- Actual temperature at selected sensor in menu 09: 21°C
- Reduce or increase required temperature (up/down arrows)
- Required output: Manual mode = %, Automatic mode = °C
- Confirm + return button

If the heating is blocked in summer mode (MENU - SUMMER HEATING), the screen will show a "Sun" icon and will not allow to select the output.



Air flow settings with closed doors

Labels for the Air flow settings screen:

- Display required air flow (20% steps)
- Display the current air flow status: 80%
- Reduce or increase opening's air flow (with closed doors) (up/down arrows)
- Confirm + return button



Date and time settings

Labels for the Date and time settings screen:

- Current date and time: 08/03/2017 09:05
- Confirm + return button
- Back to main screen button

4. CONTROL



Timer

Unless otherwise set, the unit goes on stand-by mode after the timer expires.

Weekly mode

Tap on a day to set different time modes

Button to copy the day plan to another day

Annual mode

Tap to add a new time mode



Language

There are 5 languages available



Lightning settings

7. CONTROL



AirGENIO App



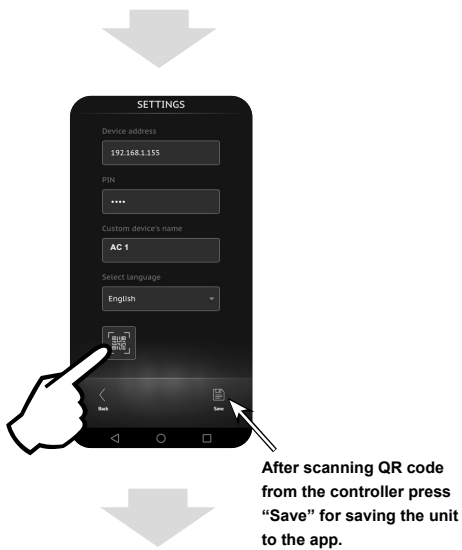
QR code for downloading the AirGENIO application for smart devices

Pairing mobile device with unit using QR code.

Pairing smart device:

The IP address and PIN of the unit can be entered manually or by using a QR code for quick pairing of the unit.

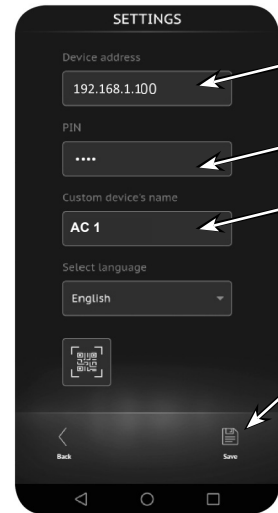
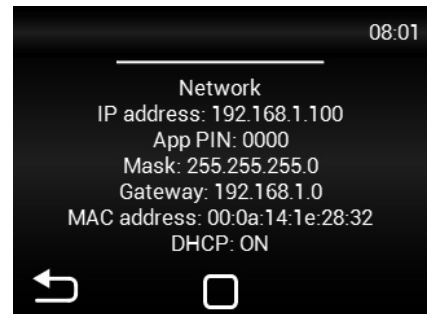
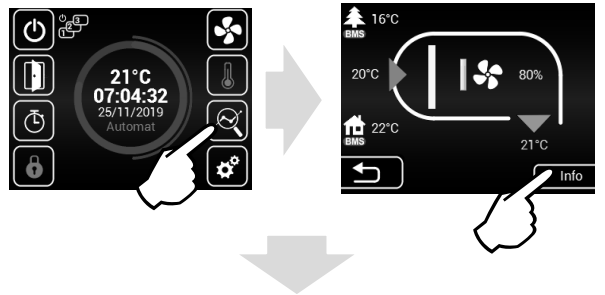
1. Pairing using QR code:



After scanning QR code from the controller press "Save" for saving the unit to the app.



2. Manual pairing:



Enter the IP address from controller

Enter the PIN from the controller

Device's name

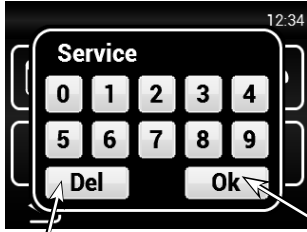
After entering all the information from the controller press "Save" for saving the unit to the app.

4. CONTROL



Service menu

Enter code 1616 to access the service menu



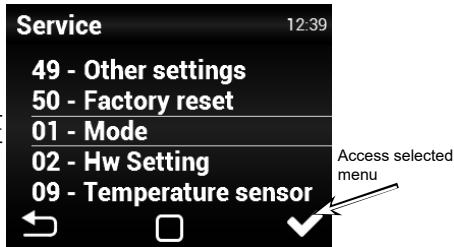
Delete/return

Access menu

1616

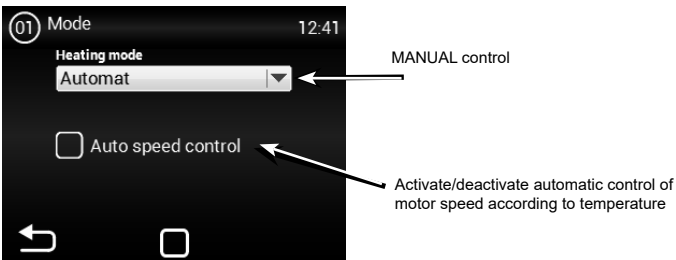


Choose this menu after centring the screen and tapping on enter.



Access selected menu

MENU - MODE



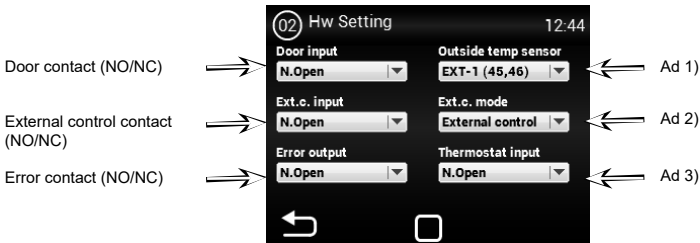
MANUAL control

Activate/deactivate automatic control of motor speed according to temperature

Setting AUTO or MANUAL may block/unblock certain items in the service menu.

MENU - HW SETTING

Use this menu to set the detailed behaviour of the inputs and outputs of the regulators



Ad 1) - External temperature sensor activation/settings Options:
None - no sensor connected - inactive
EXT-1 (45,46) - sensor connected (must be on terminals 45 y 46)
BMS - sensor active and used from the master system

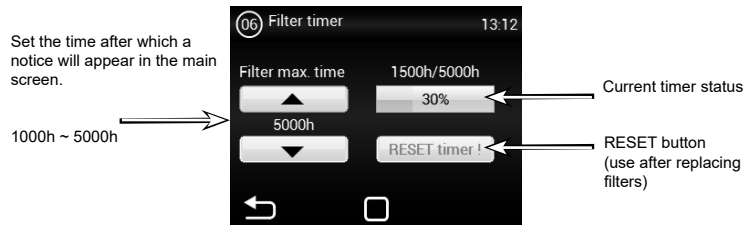
Ad 2) - Sets the external contact input behaviour. Options:
None - inactive
External control - External switching of device
Night reduction - Night reduction on/off (settings described below)

Ad 3) - Thermostat (NO/NC)

MENU - FILTER TIMER



Use this menu to set the period (in motor hours) after which you will be reminded to replace the filters or reset to timer.



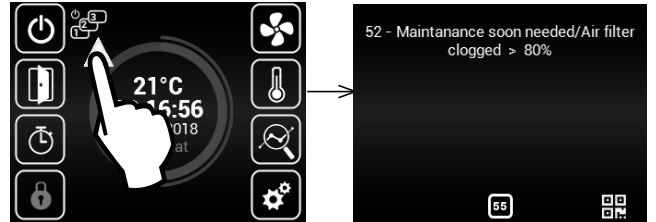
Set the time after which a notice will appear in the main screen.

1000h ~ 5000h

Current timer status

RESET button (use after replacing filters)

Shows the status of the clogged filter in the main screen

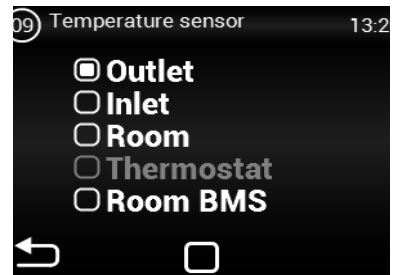


MENU - TEMPERATURE SENSOR

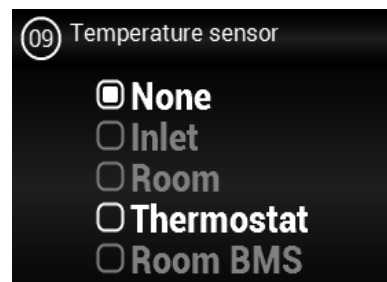


Available only in automatic mode

Use this menu to select the sensor to be used for primary temperature control



Only available in Manual mode.



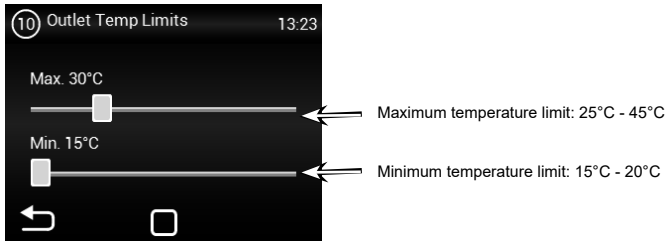
Options:

- Outlet** - Temperature sensor at the outlet (behind the exchanger)
- Inlet** - Temperature sensor at the inlet (before the exchanger)
- Room** - Room temperature sensor
- Thermostat** - Room thermostat (ON/OFF)
- Room BMS** - Room temperature sensor from master system

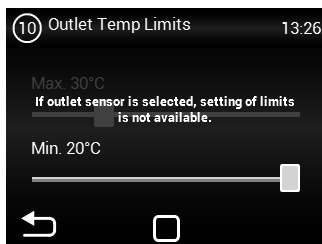
4. CONTROL

MENU - OUTLET TEMP LIMITS

Use this menu to set the limits of the exhaust

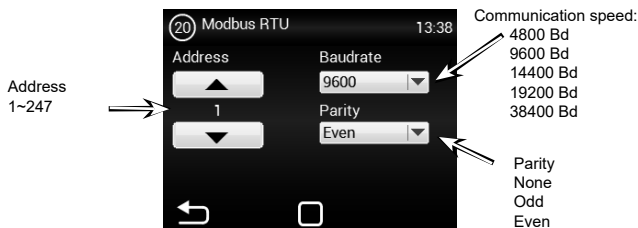


If "OUTLET" is selected in the TEMPERATURE SENSOR MENU, it will not be possible to set values as they are already defined by the sensor. You will see this screen:



MENU - MODBUS RTU

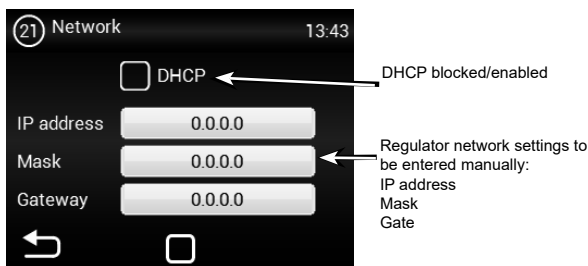
Use this menu to set the Modbus RTU communication parameters



An incorrect setting may prevent communication with the regulator

MENU - NETWORK

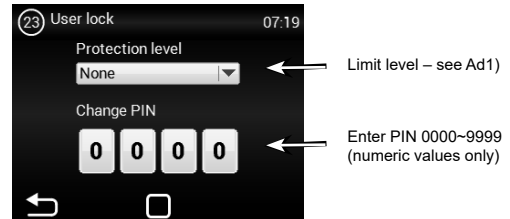
Use this menu to set the communication parameters of the network interface



An incorrect setting may prevent communication with the regulator

MENU - USER LOCK

Use this menu to set the limits to control the regulator with a multi-level panel



Options:

None – Limit inactive

On/Off – Only On/Off and access to the information menu are enabled in the main screen

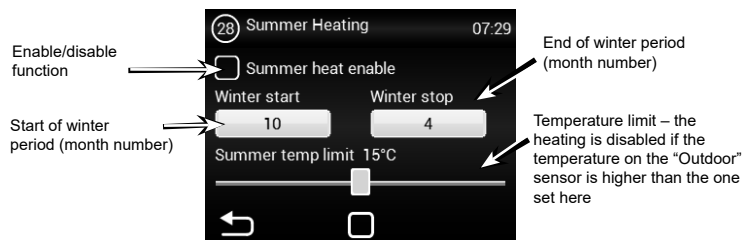
On/Off, Temp, Flow – On/Off, the information menu, and temperature and air flow settings can be accessed without password.

Full – Only the information menu can be accessed without password

User mode – Special user mode, see image below

MENU - SUMMER HEATING

Use this menu to set heating limits in summer months



If the outside temperature sensor is not set, the "summer heating" mode will operate only according to the selected time and the temperature will not be taken into account

MENU - Night Reduction

This MENU allows for setting reduced temperatures during night hours with closed doors.




Setting reduced temperature range -1~-5°C

In this menu, the reduction of temperature may be set only by five degrees at the set time compared to the set (required) temperature.

4. CONTROL

MENU - DOOR CONTACT

 This MENU allows for setting the behaviour of the regulator according to doors contact

Zapnutí/vypnutí této funkce

Mode:
Fixed - fixed setting
Selflearning - automation menu

Setting Fixed mode

Time interval

Blower power with open doors

Required temperature with open doors

Suspend mode:
at a set time, or upon achieving a specific temperature

Time of shutter operation per minimum rotation of the motor from closed doors.

Time of shutter operation per maximum rotation of the motor from closed doors.

Temperature

Blower power with open doors.

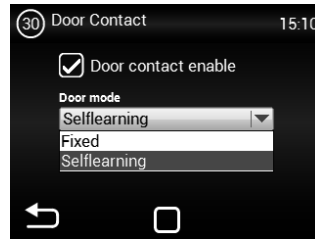
The temperature the shutter attempts to reach with open doors.

Room
Outlet
Inlet
Room
Thermostat
Room BMS

In this menu it is possible to specify which sensor will be active and the temperature the shutter will attempt to reach after closing doors so as to balance temperature loss. After reaching the set temperature, the shutter transitions into the selected automatic/manual mode.

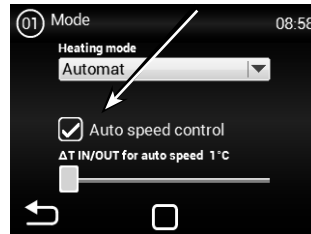
MENU - DOOR CONTACT

MENU Selflearning



Selflearning- available only in automation and active function mode (Auto speed control), depending on the number of open doors it optimises the period in which the shutter is in operation, even when doors are closed.

Must be set to activate Selflearning.



MENU - WATER ANTIFREEZE

The menu is enabled only in units with water exchanger

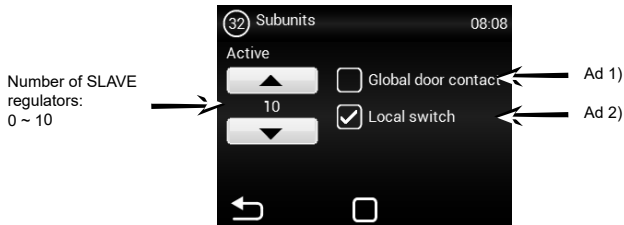
Settings (20%-100%)

Ventilation rate with open doors (20%-100%)

4. CONTROL

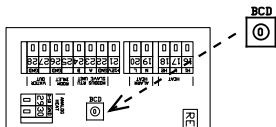
MENU - SUBUNITS

Use this menu to set the behaviour of the IC-S regulators connected as SLAVE



Number of SLAVE regulators: 0 ~ 10

Slave address parameter:



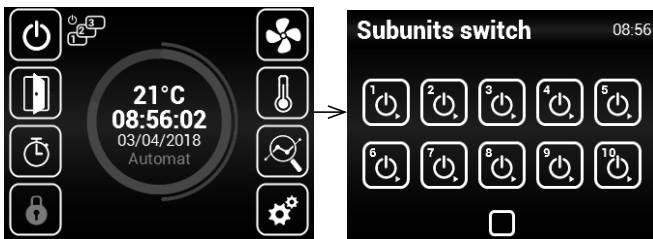
ADDRESS	SLAVE UNIT	ADDRESS	SLAVE UNIT
1	1	6	6
2	2	7	7
3	3	8	8
4	4	9	9
5	5	A	10

Ad 1) – Use one door contact as main. Its status will be sent to the SLAVE regulators and it will no longer be necessary to connect it to each regulator, if required.

- Not allowed = the door contact will not transmit to the SLAVE regulator from the MASTER
- Allowed = the door contact will transmit to the SLAVE regulator from the MASTER

Ad 2) – Activates in the main screen the icon to turn each SLAVE regulator ON/OFF. If inactive, all the SLAVE regulators will be turned on or off simultaneously

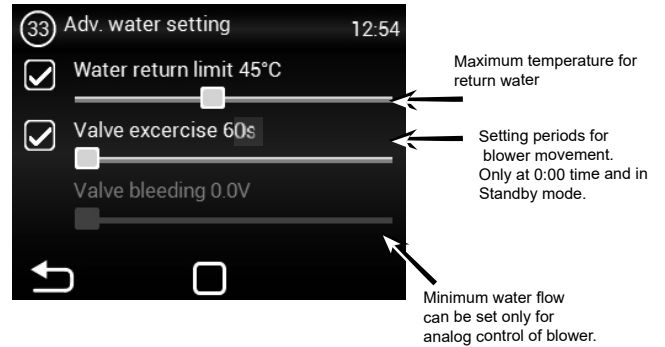
- Not allowed = The SLAVE regulators are turned on/off simultaneously
- Allowed = The SLAVE regulators can be turned on/off individually from the main screen



MENU - Adv. WATER SETTING



This MENU is available only for units with water heat exchanger it allows for advanced setting of water heat exchanger regulation.



Maximum temperature for return water

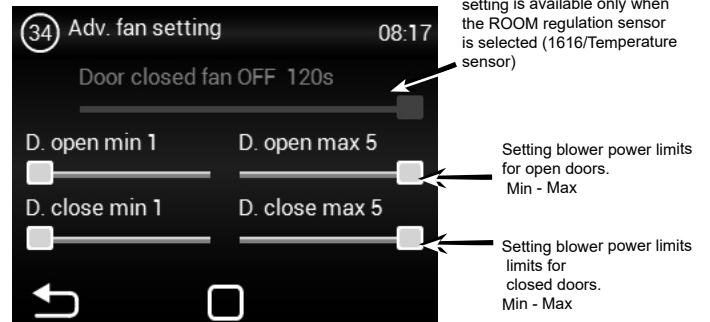
Setting periods for blower movement. Only at 0:00 time and in Standby mode.

Minimum water flow can be set only for analog control of blower.

MENU - Adv. fan setting

The MENU for setting the blowers when closing and opening doors. It allows for advanced settings of blower control.

The time for which the blower will be operational from the moment the desired temperature is achieved +0.3°C on the ROOM sensor in closed door mode. This setting is available only when the ROOM regulation sensor is selected (1616/Temperature sensor)



Setting blower power limits for open doors. Min - Max

Setting blower power limits for closed doors. Min - Max

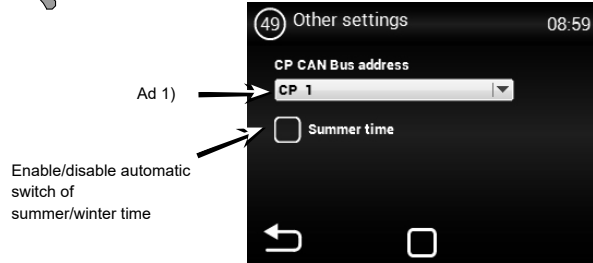


The set limits on blower power restrict the extent of blower control for open and closed doors. This restriction is applied to manual and automatic control of blower power. Exceeding limits in any blower power setting is signalled when the setting element turns red with the text overruns.

4. CONTROL

MENU - OTHER SETTINGS

Use this menu to set the remaining parameters



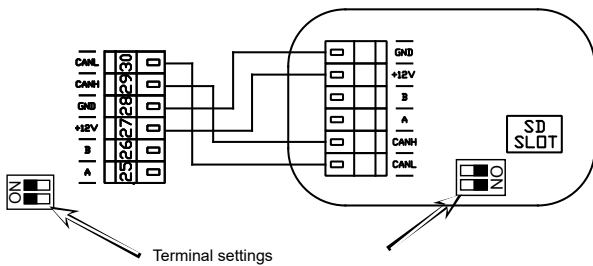
Ad 1) – Sets the CAN address of the control panel so up to 2 control panels may be connected to the MASTER regulator
Options: CP 1 = control panel's address is 1
CP 2 = control panel's address is 2

The address is set for each control, which then addressed according to it.

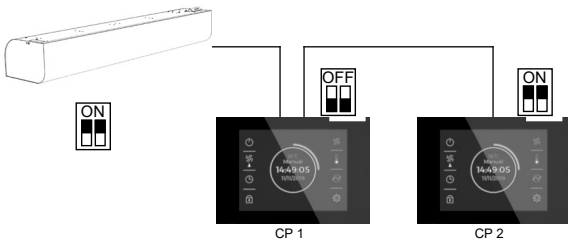
CAUTION!

Each panel must have its own address, otherwise it may result in the malfunction of the regulator.

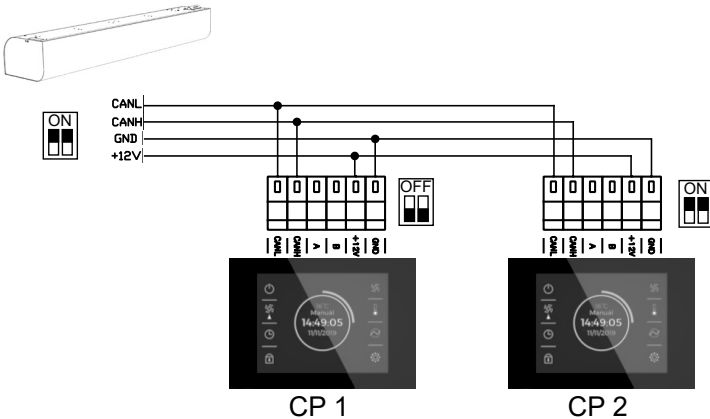
Terminals must be set if multiple panels are to be connected. They are found in the main electronics and the controller:



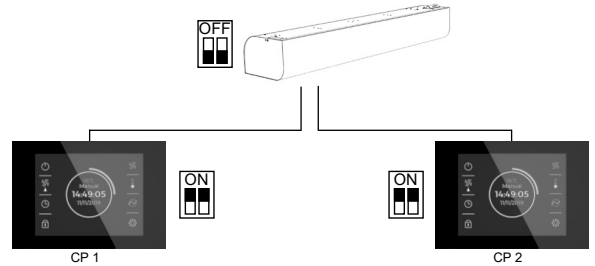
Example of controller connection – Option 1:



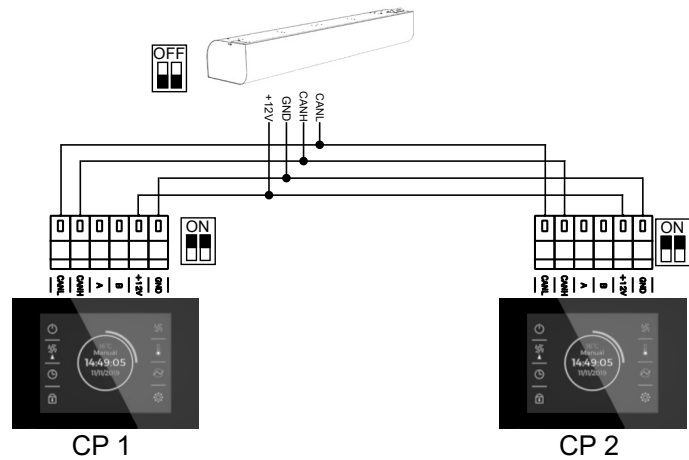
Electric connection – Option 1:



Electric connection – Option 2:

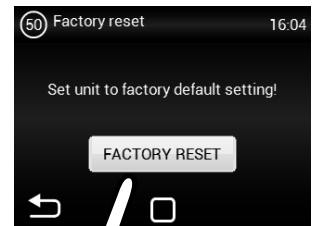


Electric connection – Option 2:

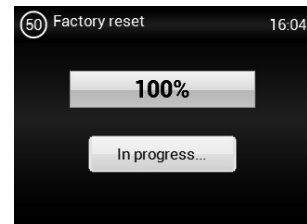


MENU - FACTORY RESET

Use this to reset the default values



Press "FACTORY RESET" to reset the default values of MENU 1616



Once completed, we recommend to turn the main supply off and on.

5. MALFUNCTIONS

5.1 MALFUNCTIONS

Disconnect the main power supply before any intervention to the unit. If you are not sure of the correct steps, do not attempt to perform any repairs and call a professional service!

Description	Unit behaviour	Likely problem	Solution
44 – Fan error	Unit out of order	Overheated fan or defect on thermal contact of inlet fan	Determine the cause of the overheating (defective bearing, short-circuit...) or replace the motor. Check the thermal contacts from the motor to the regulator.
45 – Mandatory maintenance/filter clogged	Unit operational	Filter clogged or the time to replace it has come	Replace filters. After replacing, do not forget to reset the MENU 1616 – FILTER TIMER
46 – Heater malfunction	Unit out of order	Heater malfunction	Check the heater and the condition of the safety thermostat Does the heater have proper cooling? Check engine running.
47 - malfunction in external temperature sensor (45,46)	Unit out of order	Temperature sensor malfunction on terminals 45,46	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around 10kΩ)
48 – Outlet temperature sensor malfunction (49,50)	Unit out of order	Temperature sensor malfunction on terminals 49,50	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around 10kΩ)
49 – Inlet temperature sensor malfunction (51,52)	Unit out of order	Temperature sensor malfunction on terminals 51,52	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around 10kΩ)
60 – Exchanger's return sensor malfunction (53,54)	Unit out of order	Temperature sensor malfunction on terminals 53,54	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around 10kΩ)
61 – Room temperature sensor malfunction (55,56)	Unit out of order	Temperature sensor malfunction on terminals 55,56	Check that the sensor is correctly connected to the electronics or test it measuring its resistance (the resistance value at +20°C is around 10kΩ)
62 - malfunction in external temperature sensor from BMS	Limited operation of the device	Temperature sensor malfunction in BMS	Check that in the BMS that the address where the sensors sends the data is properly set (on the right regulator) Check the function of the sensor in the BMS
63 - malfunction in room temperature sensor from BMS	Limited operation of the device	Temperature sensor malfunction in BMS	Check that in the BMS that the address where the sensors sends the data is properly set (on the right regulator) Check the function of the sensor in the BMS
79 – Heating reduced due to low air flow	Unit operational	Only information	The air flow settings were reduced, limiting the heater output to prevent overheating
65 – Communication error	Unit out of order	Communication error	Check the communication cable for damages and if it is properly connected Observe the wiring diagram to prevent occurrences that may disrupt communication (wiring near high tension, phenomena on site causing disruptions)
Unit's not working	Unit out of order	Power supply interrupted	Check that the power supply is not interrupted
		Cracked fuse	Check the fuse in side the control module
The heating switches off automatically	Unit operational but not heating	The heater overheats	The heater overheats due to insufficient air flow. Check that the ventilators are in good order and that the air supply is not disrupted.

6. MAINTENANCE

6.1 CLEANING

CAUTION!

- Do not use compressed air, chemicals, solvents or water to clean the unit.
- Use a soft brush or a vacuum cleaner to clean the suction cover and the inside of the unit.
- See the installation manual of the ESSENSSE NEO curtain

7. SERVICE

7.1 IF YOU ARE UNABLE TO REPAIR THE UNIT

If you were unable to solve a problem, contact the supplier or the representative of 2VV. Warranty and post-warranty service are provided by the supplier or an authorised service included in the list available at the supplier's.

Give the following information to the supplier or service:

- **type designation of the air curtain**
- **accessories in use**
- **place of installation**
- **serial number**
- **conditions of the installation (incl. electrical)**
- **period of operation**
- **detailed description of the malfunction**

7.2 – DECOMMISSIONING THE PRODUCT – LIQUIDATOIN

Before scrapping the product, make it unusable. Old products still have raw materials that can be reused. Take them to a collection centre for secondary raw materials. It is preferable to have the product liquidated by a specialist so that the recyclable materials may be reused. Take the unusable parts to an appropriate waste disposal site.



The liquidation of materials must observe the applicable waste management regulations.

9. CONCLUSION

9. CONCLUSION

In case of any doubt or query, do not hesitate to contact our sales or technical support departments.

CONTACT

Address:

2VV, s.r.o.,
Fáblovka 568,
533 52 Pardubice
Czech Republic

Internet:

<http://www.2vv.cz/contact.distribution.php>

